

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P1325298

Luminaire Tested: LDSQA3D05R50W2N902765DE010 3LSQCA30R 1MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325298
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R50W2N902765DE010 3LSQCA30R 1MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

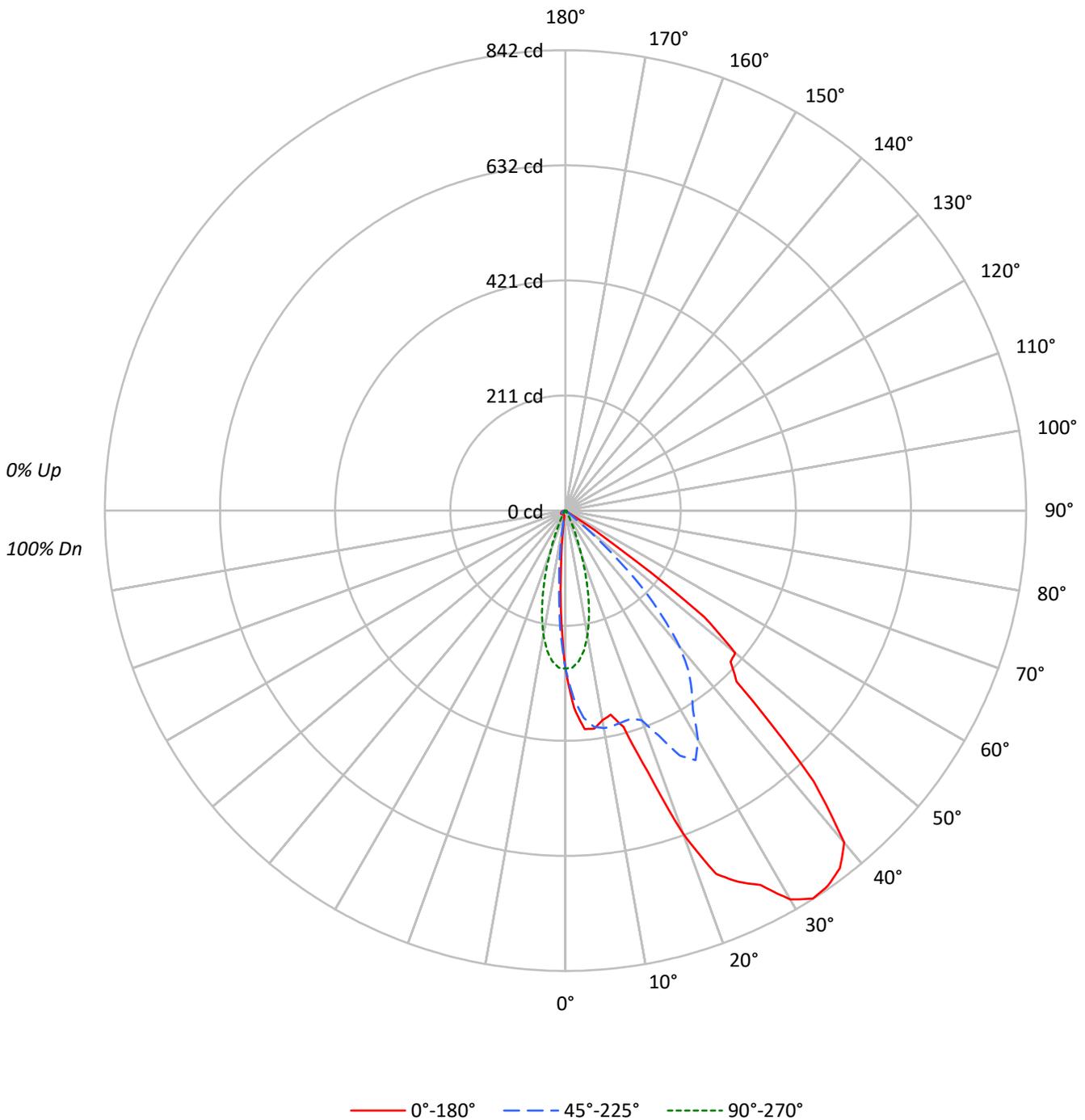
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 449.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100	
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	95	94	92	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58	
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47	
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39	
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	49721	49721	49721	49721	49721
5°	69325	65764	47784	22976	14902
10°	68046	70669	40380	4844	2081
15°	72977	71426	28563	1694	1623
20°	115225	74795	15084	1448	1521
25°	142406	93930	6005	1349	1501
30°	163249	96330	2446	1332	1571
35°	175996	84561	1072	1409	1745
40°	178170	72819	809	1596	1956
45°	107678	47202	779	1729	2216
50°	108485	8145	857	2009	2545
55°	32068	480	961	2252	2852
60°	551	551	964	2446	3134
65°	489	489	978	2567	3382
70°	604	604	1007	2769	3777
75°	532	532	1065	2861	3926
80°	397	793	1190	2777	4265
85°	790	1581	1581	3162	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 122998 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.3	5.2
10°-20°	58.0	12.9
20°-30°	108.6	24.2
30°-40°	129.8	28.9
40°-50°	93.0	20.7
50°-60°	28.7	6.4
60°-70°	3.7	0.8
70°-80°	2.7	0.6
80°-90°	1.1	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	189.9	42.3
0°-40°	319.7	71.2
0°-60°	441.4	98.3
0°-90°	449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	289	289	289	289	289	
5°	401	380	276	133	86	37
15°	409	401	160	10	9	131
25°	749	494	32	7	8	345
35°	837	402	5	7	8	519
45°	442	194	3	7	9	406
55°	107	2	3	8	10	137
65°	1	1	2	6	8	1
75°	1	1	2	4	6	1
85°	0	1	1	2	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	361.0	361.8	363.0	359.8	357.9	356.3	353.5	352.7	346.0	343.2	340.5
5°	401.0	400.2	401.0	399.8	399.0	396.6	394.3	390.3	385.9	380.4	374.1
7.5°	402.2	401.4	402.9	402.9	404.5	404.5	404.5	404.9	402.6	398.6	393.1
10°	389.1	389.1	390.7	389.9	392.7	393.9	396.6	401.4	403.7	404.1	402.6
12.5°	382.4	382.4	382.8	381.2	382.0	383.2	386.3	391.9	397.4	402.9	406.1
15°	409.3	410.1	404.5	396.6	390.7	384.4	382.4	385.9	391.9	400.6	407.7
17.5°	500.6	501.8	495.9	476.9	458.7	432.6	409.3	397.8	391.5	398.6	408.1
20°	628.7	624.4	614.1	593.9	567.5	527.1	490.7	454.0	418.8	408.1	411.3
22.5°	719.3	717.7	709.4	686.9	663.9	626.4	580.1	528.7	477.7	445.3	428.3
25°	749.4	748.2	740.7	727.2	714.6	686.1	644.6	592.8	539.4	494.3	451.6
27.5°	771.9	770.3	758.4	743.4	730.4	701.5	663.5	624.4	575.4	514.5	448.8
30°	820.9	816.6	800.0	773.1	748.2	708.2	666.3	617.7	551.2	484.4	420.3
32.5°	841.5	839.1	824.9	803.1	775.8	723.6	660.0	578.5	491.1	433.4	386.7
35°	837.1	833.6	818.9	794.0	760.8	710.6	625.6	513.7	442.5	402.2	349.6
37.5°	824.1	818.9	801.6	772.3	732.0	666.3	555.2	461.1	415.2	369.7	299.0
40°	792.5	784.2	764.0	733.5	693.2	607.0	491.1	429.4	386.7	323.9	242.4
42.5°	671.5	667.1	677.0	671.8	636.3	534.6	445.7	400.6	341.7	261.8	175.6
45°	442.1	449.6	467.4	497.9	505.0	459.9	408.5	353.1	281.2	193.8	101.2
47.5°	409.3	407.7	412.0	418.0	419.2	400.2	353.5	291.8	208.8	110.7	28.1
50°	404.9	402.6	399.0	391.9	376.9	340.1	287.1	212.7	120.6	30.4	2.0
52.5°	319.9	317.5	317.5	307.3	287.9	252.3	198.1	117.0	33.6	2.0	1.6
55°	106.8	113.9	112.7	112.3	121.0	111.5	85.4	30.1	2.8	1.6	1.6
57.5°	2.0	2.0	2.0	3.6	5.5	7.9	4.7	2.4	1.6	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2
77.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	334.1	328.6	317.9	287.5	253.9	215.5	189.4	186.3
5°	364.2	355.9	338.5	276.4	199.7	132.9	98.9	86.2
7.5°	384.0	372.9	351.5	258.2	145.5	70.0	37.6	30.1
10°	395.8	385.6	358.3	230.9	92.5	27.7	12.7	11.9
12.5°	402.2	392.3	360.6	198.1	52.2	12.7	9.9	9.9
15°	406.5	395.8	357.1	160.2	26.1	9.5	9.1	9.1
17.5°	408.5	395.4	346.8	120.6	13.8	8.7	8.7	8.7
20°	409.7	391.1	327.8	82.3	9.5	7.9	8.3	8.3
22.5°	410.9	380.4	302.9	52.2	7.5	7.5	7.9	7.9
25°	408.5	361.8	267.7	31.6	6.7	7.1	7.5	7.9
27.5°	391.5	333.7	225.0	19.4	5.9	6.7	7.5	7.9
30°	362.2	292.6	175.6	12.3	5.5	6.7	7.5	7.9
32.5°	324.3	245.6	125.4	7.5	5.5	6.7	7.5	7.9
35°	273.2	187.8	81.5	5.1	5.5	6.7	7.9	8.3
37.5°	215.9	131.3	43.9	4.0	5.5	6.7	7.9	8.3
40°	155.4	78.7	15.8	3.6	5.1	7.1	8.3	8.7
42.5°	91.0	29.3	2.8	3.2	5.1	7.1	8.3	8.7
45°	26.1	3.2	1.6	3.2	5.1	7.1	8.7	9.1
47.5°	2.0	1.2	1.6	3.2	5.1	7.1	8.7	9.5
50°	1.2	1.2	1.2	3.2	5.1	7.5	9.1	9.5
52.5°	1.6	1.6	1.6	3.2	5.1	7.5	9.1	9.5
55°	1.6	1.6	1.6	3.2	5.1	7.5	9.1	9.5
57.5°	1.6	1.6	1.6	3.2	5.1	7.1	9.1	9.5
60°	1.6	1.6	1.6	2.8	4.7	7.1	8.7	9.1
62.5°	1.6	1.6	1.6	2.8	4.7	6.7	8.7	8.7
65°	1.6	1.6	1.6	2.4	4.3	6.3	7.9	8.3
67.5°	1.6	1.6	1.6	2.4	4.0	5.9	7.5	7.9
70°	1.2	1.6	1.6	2.0	3.6	5.5	7.1	7.5
72.5°	1.2	1.2	1.6	2.0	3.2	4.7	6.3	6.7
75°	1.2	1.2	1.2	1.6	2.8	4.3	5.5	5.9
77.5°	1.2	1.2	1.2	1.6	2.4	3.6	5.1	5.1
80°	0.8	1.2	1.2	1.2	2.0	2.8	4.0	4.3
82.5°	0.8	0.8	0.8	1.2	1.6	2.4	3.2	3.2
85°	0.8	0.8	0.8	0.8	1.2	1.6	2.0	2.0
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)